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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,425	12/27/2006	Jorg Feesche	H06291 (13744-00021)	5960
23416	7590	04/17/2009	EXAMINER	
CONNOLLY BOVE LODGE & HUTZ, LLP			PORTNER, VIRGINIA ALLEN	
P O BOX 2207				
WILMINGTON, DE 19899			ART UNIT	PAPER NUMBER
			1645	
			MAIL DATE	DELIVERY MODE
			04/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/593,425	FEESCHE ET AL.	
	Examiner	Art Unit	
	GINNY PORTNER	1645	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 8/12/2008.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,2,5-11,13,14,16-21,23-33 and 48-54 is/are pending in the application.
- 4a) Of the above claim(s) 34 and 54 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 1,2,5-11,13,14,16-21,23-33 and 48-53 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ . | 6) <input checked="" type="checkbox"/> Other: <u>See Continuation Sheet</u> . |

Continuation of Attachment(s) 6). Other: sequence letter, Notice to comply.

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DETAILED ACTION

Claims 1-2, 5-11, 13-14, 16-21, 23-34, 48-54 are pending.

Claims 34 and 54 are improper multiple dependent claims because the claims depend from two claims simultaneously, rather than in the alternative.

Claim Objections

1. Claims 34 and 54 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim must depend from prior claims in the alternative and not simultaneously. See MPEP § 608.01(n). Accordingly, the claims 34 and 54 will not be further treated on the merits. Upon claim amendment to present the claims in proper format, the claims will be placed in a new group or a group set forth below in the Lack of Unity.

Lack of Unity of Invention

Please Note: In light of US-PG-Pub 2008/005077, which has an effective filing date under 35

USC 102(e) of January 9, 2004, and disclosing the first appearing invention (see sequence alignment provided below), a Lack of Unity of invention is being set forth

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US-10-983-160-6016
Sequence 6016, Application US/10983126
Publication No. US20080050774A1
GENERAL INFORMATION:
APPLICANT: REEKA, Randy
APPLICANT: REY, Michael
APPLICANT: RAMATTA, Frederick
APPLICANT: RASMUSSEN, Tomme
APPLICANT: RASMUSSEN, Michael Dolberg
APPLICANT: OLSEN, Peter Blaske
TITLE OF INVENTION: Bacillus licheniformis Chromosome
FILE REFERENCE: 10988.200-US
CURRENT PRIORITY NUMBER: US/10/983,128
CURRENT FILING DATE: 2004-05-22
PRIOR APPLICATION NUMBER: 60/533,988
PRIOR FILING DATE: 2004-01-06
PRIOR APPLICATION NUMBER: 60/561,059
PRIOR FILING DATE: 2004-04-08
PRIOR APPLICATION NUMBER: 60/572,403
PRIOR FILING DATE: 2004-03-19
INVENTOR'S SEQ ID NO.: 8393
SOFTWARE: Paste&Go for Windows Version 4.0
SEQ ID NO: 6016
LENGTH: 348
TYPE: PRT
ORGANISM: Bacillus licheniformis
US-10-983-128-6016

Query Match 99.4%; Score 1718; DB 5; Length 348;
Best Local Similarity 99.4%; Best. No. 1.4e-140;
Matches 346; Conservative 1; Missmatches 1; Deletions 0; Gaps 0;

Qy 1 HSRSQAAALRQHPPGSDMLQKQIQTETVPSGLADALAIIGVGVPGRII 60
Db 1 HSRSQAAALRQHPPGSDMLQKQIQTETVPSGLADALAIIGVGVPGRII 60

Qy 61 EYTGESSQHTTVTALHALAEWQQDQQAFFIAUDTADPVVQQLGWNIIDLLSQPTD 120
Db 61 EYTGESSQHTTVTALHALAEWQQDQQAFFIAUDTADPVVQQLGWNIIDLLSQPTD 120

Qy 121 EQUALEIAKALWRSGAVDIPVLDSTVALVVKAEIGGNGSHWGLQPLMKSQALRLS8AI 180
Db 121 EQUALEIAKALWRSGAVDIPVLDSTVALVVKAEIGGNGSHWGLQPLMKSQALRLS8AI 180

Qy 181 HSKEKTAIFPRGTRPFGVNMSPFETTTGGALFTTSPFLYRAKDLRQDMDMKT 240
Db 181 HSKEKTAIFPRGTRPFGVNMSPFETTTGGALFTTSPFLYRAKDLRQDMDMKT 240

Qy 241 KIEVWNHVAAPPTRTAEVDIYNGCGISREGEIIDDTELQDVKSGAWNTSYQERLQGK 300
Db 241 KIEVWNHVAAPPTRTAEVDIYNGCGISREGEIIDDTELQDVKSGAWNTSYQERLQGK 300

Qy 301 EHARQFJHEM0JLIMIQEIRHVLDTGGAAQAEDEAQAEQELF 348
Db 301 EHARQFJHEM0JLIMIQEIRHVLDTGGAAQAEDEAQAEQELF 348

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Previous Application 69/333,988 sequence 5502 is identical to SEQ ID NO 8016 of US Application number 10/983,128.

herein.

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US-10-983-128-1
Sequence 1, Application US/10983128
Publication Date: 09/20/08/US/050774/01
General Information
APPLICANT: BERKA, Randy
APPLICANT: REY, Michael
APPLICANT: RAMAIYA, Preethi
APPLICANT: AMERIYAN, Jeni Toune
APPLICANT: RASMUSSEN, Michael Dolberg
APPLICANT: OLSEN, Peter Bjørke
TITLE OF INVENTION: *Bacillus licheniformis* Chromosome
FILED DATE: 2004-01-09 US
DRAFTED APPLICATION NUMBER: US/10/983,128
CURRENT FILING DATE: 2004-09-25
PRIOR APPLICATION NUMBER: 60/535,988
PRIOR FILING DATE: 2004-01-09
PRIOR APPLICATION NUMBER: 60/561,059
PRIOR FILING DATE: 2004-04-08
PRIOR APPLICATION NUMBER: 60/572,403
PRIOR FILING DATE: 2004-05-19
NUMBER OF SEQ ID NOS: 8395
SEQUENCE TYPE: FastSEQ for Windows Version 4.0
SEQ ID NO: 1
LENGTH: 4222334
TYPE: DNA
ORGANISM: *Bacillus licheniformis*
US-10-983-128-1

Query Match 85.4%; Score 894; DB 17; Length 4222334;
Best Local Similarity 99.7%; Pctd. No. 0;
Matches 1044; Conserved 0; Mismatches 3; Indels 0; Gaps 0;
Ov 1 ATAGCTGATCGTCAAGCCAGCCTTAGATATGGCGCTTAACAAATAAGAAAACACTTTGGT 60
Db 18765690 ATAGCTGATCGTCAAGCCAGCCTTAGATATGGCGCTTAACAAATAAGAAAACACTTTGGT 1876749
Ov 61 AAAAGTTTCATTATGAAACTCGCGAACAAAACCTAAACAGAGAAATTTCACACTCCGA 120
Db 1876750 AAAAGTTTCATTATGAAACTCGCGAACAAAACCTAAACAGAGAAATTTCACACTCCGA 1876809
Ov 121 GGTTCTTTAAGGGCTGATTCGGCCTTGAGTGGGGATACCGCCGGCGCGGTATT 180
Db 1876810 GGTTCTTTAAGGGCTGATTCGGCCTTGAGTGGGGATACCGCCGGCGCGGTATT 1876869
Ov 181 GAAATGATAACGGCCTGAAAGCTCCGGTAAACCGACGGTGGCGCTCATGGATTCGGGA 240
Db 1876870 GAAATGATAACGGCCTGAAAGCTCCGGTAAACCGACGGTGGCGCTCATGGATTCGGGA 1876929
Ov 241 GTTCAGCCAGCGAGGGACAAACGGCGCTTCATGGCGAACACCGCCGCTGATTCGGCTC 300
Db 1876930 GTTCAGCCAGCGAGGGACAAACGGCGCTTCATGGCGAACACCGCCGCTGATTCGGCTC 1876989
Ov 301 TATGCCACAAAACGTCGGCGTCACACATTGATGAGCTTTGGCTGTCACACGCTGATTCGGG 360
Db 1876990 TATGCCACAAAACGTCGGCGTCACACATTGATGAGCTTTGGCTGTCACACGCTGATTCGGG 1877049
Ov 361 GAGCAGGGCGCTCGAAAATCGCTGAAAGCCTTCTGAGAAGCGAGGGCGTGATATGGCTGC 420
Db 1877050 GAGCAGGGCGCTCGAAAATCGCTGAAAGCCTTCTGAGAAGCGAGGGCGTGATATGGCTGC 1877109
Ov 421 ATGACATTCTATGAGCGCTTGGCGAAAGCTGAAATGAGAAGCTGATATGGGGGATTC 480
Db 1877110 ATGACATTCTATGAGCGCTTGGCGAAAGCTGAAATGAGAAGCTGATATGGGGGATTC 1877169
Ov 481 CAGCTGGTTGGCGAGGCGAGACTGATGTCAGGGCTTGCGAACGCTTCCGGACGATC 540
Db 1877170 CAGCTGGTTGGCGAGGCGAGACTGATGTCAGGGCTTGCGAACGCTTCCGGACGATC 1877229
Ov 541 AATAATGAGAACCATGGCGATTTTATGACACGAGTTGTGAAAAAAACTCGCTGATG 600
Db 1877230 AATAATGAGAACCATGGCGATTTTATGACACGAGTTGTGAAAAAAACTCGCTGATG 1877289

Qy 601 TTGGAATCTGAGACGACGCCAGGGAAAGCGCTGAAATTCTACTCTCTGCGC 660
Db 1877290 TTGGAATCTGAGACGACGCCAGGGAAAGCGCTGAAATTCTACTCTCTGCGC 1877349
Qy 661 CTGAAGTGGCGCGCGAGACGCGCTGAAACAGGAACGACGCTCATGGGAACAGACG 720
Db 1877350 CTGAAGTGGCGCGCGAGACGCGCTGAAACAGGAACGACGCTCATGGGAACAGACG 1877409
Qy 721 AAAATCAAAGTCGTGAAAACAAGTGGACCTCCATTCCGGACAGCGAACTGACATT 780
Db 1877410 AAAATCAAAGTCGTGAAAACAAGTGGACCTCCATTCCGGACAGCGAACTGACATT 1877469
Qy 781 ATGTAAGGGAAAGGAMTTCAAAAGAAAGGGAAATCATGACCTUGGAACAGACTTGAC 840
Db 1877470 ATGTAAGGGAAAGGAMTTCAAAAGAAAGGGAAATCATGACCTUGGAACAGACTTGAC 1877529
Qy 841 ATCGTCAAAAGACGGCTCATGGTACTCTTATCAGGAGGAACCCCTGGAAAGCGT 900
Db 1877530 ATCGTCAAAAGACGGCTCATGGTACTCTTATCAGGAGGAACCCCTGGAAAGCGT 1877589
Qy 901 GAAACGCCAACACGTCCTGAAACAAACGCTATCTTTGATGATTCAGACAGCAG 960
Db 1877590 GAAACGCCAACACGTCCTGAAACAAACGCTATCTTTGATGATTCAGACAGCAG 1877649
Qy 961 ATCCGGAGCACTACGTTGGATACTGGAGGGCTGCTCTGACAGGAAGAGGCC 1020
Db 1877650 ATCCGGAGCACTACGTTGGATACTGGAGGGCTGCTCTGACAGGAAGAGGCC 1877709
Qy 1021 CAAGCTAGGAAGAACTCGAGTTAA 1047
Db 1877710 CAAGCTAGGAAGAACTCGAGTTAA 1877736

PG-Pub 2008/0050774's SEQ ID No 1 and 1819 share 99.5 sequence identity at the nucleic acid level with instantly claimed SEQ Id NO 1; priority document 60/535,988 (filing date January 9,2004).

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not

so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a

single invention to which the claims must be restricted.

Group I, claim(s) 1-2, drawn to a protein RecA from *Bacillus licheniformis*.

Group II, claim(s) 5-7 and 31-32, drawn to a nucleic acid encoding a factor RecA of SEQ ID NO 1, or encodes the amino acid sequence SEQ ID NO 2.

Group III. claim(s) 8-10, 11, 13-14, 16 and 48, drawn to a plurality of methods of functionally inactivating the gene recA in a gram positive bacterium.

Group IV, claim(s) 17-1, 23-28, drawn to a gram positive bacterium with an inactivated recA gene, and a method of fermenting the bacterium.

Group V, claim(s) 26-28, drawn to a plurality of methods of making a low molecular weight compound, a protein, an enzyme, a natural product, a nutritional supplement or a pharmaceutically relevant compound.

Group VI, claim(s) 29-30, drawn to a method of improving a molecular biological reaction.

Group VII, claim(s) 33, drawn to a method of manufacturing factor RecA (no methods steps recited).

Group VIII, claim(s) 49, drawn to a method of inactivating a factor recA gene with anti-sense DNA.

Group IX, claim(s) 50-53, drawn to a plurality of methods of amplifying DNA utilizing a combination of two nucleic acids.

2. The inventions listed as Groups I-IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The first appearing invention does not define a special technical feature that makes a contribution over the prior art in light of US PG-Pub 2008/0050774, with the effective filing date of January 9, 2004, which describes the claimed special technical feature. The claimed inventions lack unity of invention in light of the description and disclosure of US PG-Pub 2008/0050774.

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Group III claims a plurality methods of making a plurality of species of gram positive bacterium with an inactivated recA gene, each species differing in structure, function and biological effect, as each species has a different gene inactivated:

(species 1-14, claim 8 or 14) recA inactivation or a combination of recA inactivation together with spoIV_A, spoIV_B, spoIV_CA, spoIV_CB, spoIV_FA, spoIV_FB, yqfD, homologs of the listed genes, or

(species 15-95 claim 16) recA inactivated together with the combination of spoIV_A, spoIV_B, spoIV_CA, spoIV_CB, spoIV_FA, spoIV_FB, yqfD, spoIV_V or homologs of the listed genes and additionally together with SEQ ID NO 3, 5, 7, 9, 11, 13, 15, 17 or parts thereof.

Group IV claims a plurality of species

(species 1-14, claim 17 or 21) recA inactivation or a combination of recA inactivation together with spoIV_A, spoIV_B, spoIV_CA, spoIV_CB, spoIV_FA, spoIV_FB, yqfD, homologs of the listed genes, or

(species 15-95 claim 23) recA inactivated together with the combination of spoIV_A, spoIV_B, spoIV_CA, spoIV_CB, spoIV_FA, spoIV_FB, yqfD, spoIV_V or homologs of the listed genes and additionally together with SEQ ID NO 3, 5, 7, 9, 11, 13, 15, 17 or parts thereof.

Group V: method makes species:

1. low molecular weight compound (claim 26)
2. a protein(claim 26)
3. a natural product (claim 27)
4. a nutritional supplement (claim 27)
5. a pharmaceutical (claim 27)
6. an enzyme (claim 28)

Group IX methods of amplifying with two nucleic acids: (claims 50-52 and 53)

- a. (species 1-5) SEQ ID NO 25 with SEQ 26, or 27 or 28 or 29 or 30

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- b. (species 6-9) SEQ ID NO 26 with SEQ 27 or 28 or 29 or 30.
- c. (species 10- 12) SEQ ID NO 27 with SEQ 28 or 29 or 30.
- d. (species 13-14) SEQ ID NO 28 with SEQ 29 or 30.
- e. (species 15) SEQ ID NO 29 with SEQ ID No 30.
- f. (species 16) the bacterium has both sporulation and recA genes inactivated, and used in combination with one of the species (1-15) listed immediately above (claim 53)

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

4. The claims are deemed to correspond to the species listed above in the following manner

Group III: Claims 8 or 14 or 16 recite a plurality of species.

Group IV: Claims 17 or 21 or 23 recite a plurality of species.

Group V: claims 26-28 recite a plurality of species.

Group IX: claims 50-53 recite a plurality of species.

The following claim(s) are generic: no claims are generic.

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5. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Each species of invention differs structurally, and functionally from the other species because each species has a different gene (claim 21) or genes (claim 23) inactivated by point mutagenesis, partial deletion, insertion or total deletion (claim 18); the differing gene structure results in different biological effects.

6. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

8. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.** Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

SEQUENCE COMPLIANCE

9. This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 C.F.R. § 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 C.F.R. §§ 1.821-1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

Full compliance with the sequence rules is required in response to this office action. A complete response to this office action should include both compliance with the sequence rules and a response to the election/restriction requirement set forth below. Failure to fully comply with **both** these requirements in the time period set forth in this office action will be held non-responsive.

10. Examiner would like to point out that there is no information with regards to SEQ ID NO: of the sequences present in Figure 1 and 2, in the Brief Description of the Drawings for the mentioned Figure1 and 2. If the Drawings contain amino acid sequences that are encompassed

by the definitions for nucleotide and/or amino acid sequences set forth in 37 C.F.R. § 1.821(a)((1) and (a)(2) then the Brief Description of the Drawings needs to state the SEQ ID NO: for the nucleotide and/or amino acid sequences. Unless the appropriate SEQ ID NO: accompanies the nucleotide and/or amino acid sequences in the actual Drawing sheet.

General Observations

Specification

11. The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01. (see paragraphs 12, 29, 30, 65, 147].

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to GINNY PORTNER whose telephone number is (571)272-0862. The examiner can normally be reached on flextime, but usually M-F, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Mondesi can be reached on 571-272-0956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ginny Portner/
Examiner, Art Unit 1645
April 13, 2009

/Robert B Mondesi/
Supervisory Patent Examiner, Art Unit 1645